

08181480 Leon Creek at Interstate Highway 35, San Antonio, TX

San Antonio Basin Medina Subbasin

LOCATION.--Lat 29°19'47", long 98°35'02" referenced to North American Datum of 1927, Bexar County, TX, Hydrologic Unit 12100302, on left bank between bridges on Interstate Highway 35 in San Antonio, 1.7 mi northeast of the intersection of Interstate Highway 35 and Loop 410, and 11.8 mi upstream from mouth.

DRAINAGE AREA.--219 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Oct. 1984 to current year.

GAGE.--Water-stage recorder. Datum of gage is 573.49 ft above NGVD of 1929. Satellite telemeter at station.

REMARKS.--Records fair. No known regulation or diversions.

PEAK DISCHARGES FOR CURRENT YEAR .-- Peak discharges greater than base discharge of 1,050 ft³/s and (or) maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)
Aug 20	1045	*1,230	*9.22
No othe	r peak g	reater than ba	se discharge

DISCHARGE, CUBIC FEET PER SECOND WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008 DAILY MEAN VALUES

						.1 IVILAIV						
Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	15	9.1	9.1	8.4	7.7	7.6	8.2	4.6	3.6	3.0	2.8	9.5
2	15	8.9	8.8	8.6	7.6	7.6	8.1	4.6	3.6	2.9	2.7	8.3
3	15	9.0	8.4	8.7	7.6	7.8	7.9	4.3	3.6	5.8	2.7	7.7
4	14	9.0	8.4	9.1	7.7	7.7	7.9	4.2	3.7	4.4	2.7	7.2
5	14	9.0	8.7	9.1	8.0	7.5	7.6	4.4	3.6	3.7	2.6	6.8
6	14	9.1	8.6	9.0	7.6	7.8	7.4	4.5	3.6	3.4	2.9	6.8
7	13	9.1	8.7	9.1	7.6	8.2	6.9	4.6	3.6	5.5	2.8	6.2
8	24	8.9	8.9	9.2	7.8	7.8	6.9	4.5	3.4	20	2.7	7.1
9	18	9.4	8.8	8.8	8.0	8.0	6.9	4.5	3.2	6.6	2.6	6.3
10	11	9.2	8.5	8.6	7.7	30	7.9	4.5	3.2	3.4	2.6	5.8
11	10	9.0	8.9	8.7	7.7	23	6.9	4.1	3.2	3.0	2.6	5.5
12	10	9.0	12	8.6	8.1	13	6.7	3.9	3.2	3.0	9.5	5.2
13	10	9.0	9.8	8.5	8.0	9.9	6.3	4.8	3.1	2.9	6.1	4.9
14	9.8	8.7	10	8.5	7.9	9.1	6.3	4.9	3.1	2.8	3.2	4.7
15	9.8	8.1	10	8.9	8.1	8.9	6.3	6.8	3.1	2.8	3.0	4.5
16	9.8	8.5	9.0	9.2	8.6	8.8	6.5	4.6	3.0	2.7	2.9	4.5
17	10	8.8	8.8	8.7	8.2	8.6	6.6	4.2	2.9	2.7	2.9	4.5
18	10	9.3	8.9	8.8	7.8	8.5	39	4.0	2.8	2.7	21	4.3
19	9.6	9.3	8.9	8.5	8.1	8.1	9.5	4.0	2.8	2.7	13	4.2
20	9.3	9.5	8.8	8.3	8.0	7.8	6.8	4.5	2.8	2.7	457	4.1
21	9.3	9.5	8.5	8.4	7.7	7.9	5.8	4.3	2.8	2.7	65	4.0
22	15	9.5	8.4	8.5	7.8	7.9	5.7	4.2	2.7	2.8	31	3.9
23	10	9.4	7.9	8.5	7.5	7.7	5.3	4.4	2.8	2.8	40	3.8
24	9.4	11	8.0	8.7	7.6	7.4	5.1	4.4	2.9	125	65	3.8
25	9.1	12	8.3	8.3	7.2	7.3	5.0	4.1	2.7	79	26	3.6
26	9.0	9.2	8.4	8.6	7.2	7.4	7.8	3.9	2.7	6.9	24	3.5
27	8.9	9.1	8.2	8.4	7.3	7.2	5.1	4.1	2.8	3.9	24	3.5
28	8.8	8.8	8.3	8.4	7.5	7.5	4.7	4.1	2.7	3.2	16	3.4
29	8.9	8.7	8.5	8.1	7.2	8.1	4.7	3.8	2.8	3.0	13	3.4
30	9.0	9.3	8.5	7.7		18	4.5	3.9	2.8	2.9	13	3.2
31	9.0		8.4	7.6		9.1		3.8		2.9	12	
Total	357.7	276.4	273.4	266.5	224.8	301.2	230.3	135.5	92.8	321.8	877.3	154.2
Mean	11.5	9.21	8.82	8.60	7.75	9.72	7.68	4.37	3.09	10.4	28.3	5.14
Max	24	12	12	9.2	8.6	30	39	6.8	3.7	125	457	9.5
Min	8.8	8.1	7.9	7.6	7.2	7.2	4.5	3.8	2.7	2.7	2.6	3.2
Ac-ft	709	548	542	529	446	597	457	269	184	638	1,740	306

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1985 - 2008, BY WATER YEAR (WY)

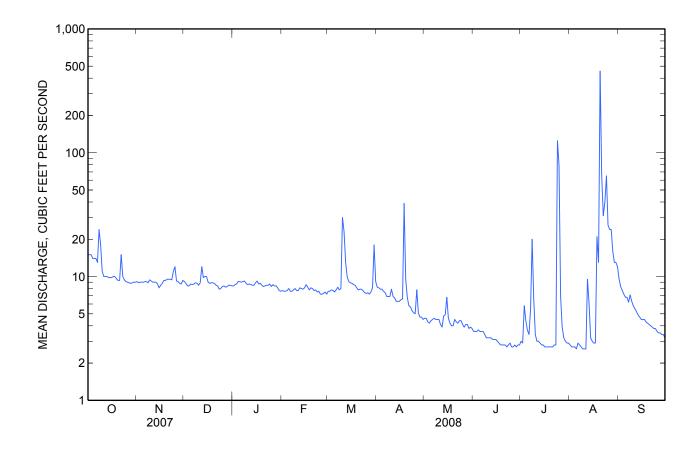
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	73.1	41.8	34.9	17.0	28.5	27.8	23.2	51.4	109	117	34.7	26.5
Max	942	397	575	116	355	192	93.2	356	824	1,950	500	195
(WY)	(1999)	(2005)	(1992)	(1992)	(1992)	(1992)	(2004)	(1992)	(1987)	(2002)	(2007)	(2002)
Min	2.80	3.18	2.89	3.76	4.73	5.11	3.69	2.14	2.72	2.37	1.73	1.97
(WY)	(1997)	(2000)	(2000)	(1997)	(2007)	(1996)	(1995)	(1996)	(1996)	(2001)	(2003)	(1989)

SUMMARY STATISTICS

	Calendar Ye	ear 2007	Water Yea	r 2008	Water Years	s 1985 - 2008
Annual total	48,385.1		3,511.9			
Annual mean	133		9.60		48.9	
Highest annual mean					205	2002
Lowest annual mean					6.22	1996
Highest daily mean	9,810	Aug 17	457	Aug 20	20,500	Jul 2, 2002
Lowest daily mean	3.0	Jan 12	2.6	Aug 5	0.52	Sep 15, 1997
Annual seven-day minimum	3.4	Mar 5	2.7	Aug 5	0.78	Aug 1, 1996
Maximum peak flow			1,230	Aug 20	ⁱ 93,300	Oct 17, 1998
Maximum peak stage			9.22	Aug 20	^a 29.31	Oct 17, 1998
Annual runoff (ac-ft)	95,970		6,970	C	35,390	-
10 percent exceeds	190		10		38	
50 percent exceeds	14		7.8		7.6	
90 percent exceeds	5.1		2.9		2.8	

i From indirect measurement of peak flow.

^a From floodmark.



WATER-QUALITY RECORDS

PERIOD OF RECORD .--

SEDIMENT: Mar. 14, 2007 to Aug. 17, 2007 (discontinued).

PERIOD OF DAILY RECORD .--

SPECIFIC CONDUCTANCE: Oct. 1985 to Sept. 2000, Feb. 2005 to Dec. 28, 2007 (discontinued).

pH: Apr. 1989 to Sept. 2000, Feb. 2005 to Dec. 28, 2007 (discontinued).

WATER TEMPERATURE: Oct. 1985 to Sept. 2000, Feb. 2005 to Dec. 28, 2007 (discontinued).

DISSOLVED OXYGEN: Apr. 1989 to Sept. 2000, Feb. 2005 to Dec. 28, 2007 (discontinued).

INSTRUMENTATION.--Water-quality monitor Sept. 1984 to Sept. 2000. Feb. 2005 to Dec. 28, 2007.

REMARKS.--Specific conductance record is excellent, pH record is excellent, water temperature record is excellent, and dissolved oxygen record is fair.

Interruptions or periods of missing record may be due to instrument failure, no flow conditions or data corrections exceeding allowable criteria, which were deleted. Other than no flow conditions, minimum and maximum extremes may have occurred during period of missing record.

EXTREMES FOR PERIOD OF DAILY RECORD .--

SPECIFIC CONDUCTANCE: Maximum, 1,020 microsiemens/cm, June 29, 1995; minimum, 39 microsiemens/cm, Jan. 18, 1991.

pH: Maximum, 8.9 units, Mar. 20, 2006; minimum, 5.5 units, Dec. 26, 2005.

WATER TEMPERATURE: Maximum, 32.5°C, July 16, 17, 1989; minimum, 4.0°C, Dec. 24, 1989.

DISSOLVED OXYGEN: Maximum, 19.8 mg/L, Oct. 13, 14, 1989; minimum, 0.3 mg/L, Aug. 1, 2000.

EXTREMES FOR CURRENT YEAR.--

SPECIFIC CONDUCTANCE: Maximum, 840 microsiemens/cm, Dec. 11; minimum, 445 microsiemens/cm, Oct. 9.

pH: Maximum, 8.0 standard units, Nov. 26; minimum, 7.4 standard units, Oct. 9.

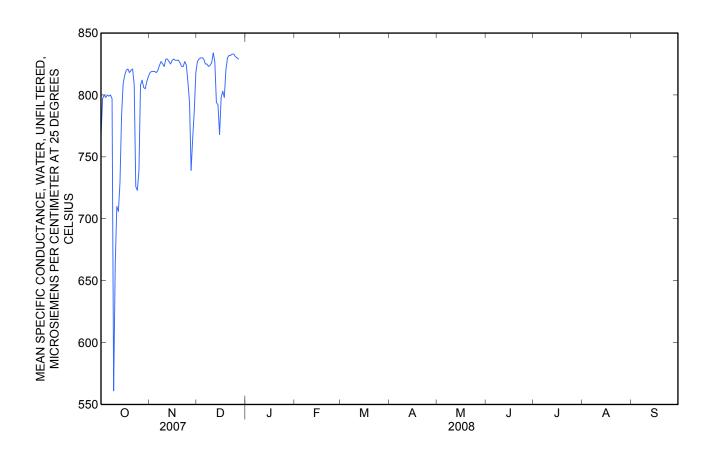
WATER TEMPERATURE: Maximum, 27.5°C, Oct. 9; minimum, 11.7°C, Dec. 25.

DISSOLVED OXYGEN: Maximum, 12.6 mg/L, Oct. 31; minimum, 5.2 mg/L, Oct. 1.

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SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Mean									
		October			Novembe	r		Decembe	r		January	
1	781	747	766	823	814	818	828	824	827			
2	804	781	797	822	815	819	831	826	829			
3	804	793	800	821	814	819	834	828	830			
4	803	793	798	821	814	819	833	828	830			
5	805	794	800	821	813	818	832	825	829			
6	803	794	799	825	817	820	829	820	825			
7	804	794	800	826	823	824	828	820	825			
8	804	714	797	829	824	827	825	821	823			
9	714	445	561	829	820	825	827	821	824			
10	704	558	663	829	821	823	830	821	826			
11	715	703	710	831	828	829	840	829	834			
12	709	703	706	832	826	829	838	818	827			
13	760	705	729	829	825	827	827	735	794			
14	803	760	783	827	822	825	813	738	792			
15	819	803	809	835	824	828	809	728	768			
16	821	809	816	831	827	829	814	783	798			
17	824	815	820	831	826	828	815	791	803			
18	823	819	821	831	827	828	809	791	798			
19	823	814	818	830	826	828	829	809	820			
20	827	812	820	829	823	826	832	828	830			
21	827	818	821	825	821	823	836	827	832			
22	821	791	808	828	820	823	836	827	832			
23	799	674	726	829	826	827	835	828	833			
24	762	678	723	828	814	824	835	828	833			
25	787	687	739	820	794	810	834	828	831			
26	815	787	808	805	757	794	834	827	830			
27	817	808	812	776	720	739	831	824	829			
28	811	801	806	787	747	765						
29	809	803	805	812	759	787						
30	814	808	811	824	812	818						
31	823	810	815									
Month	827	445	777	835	720	817						



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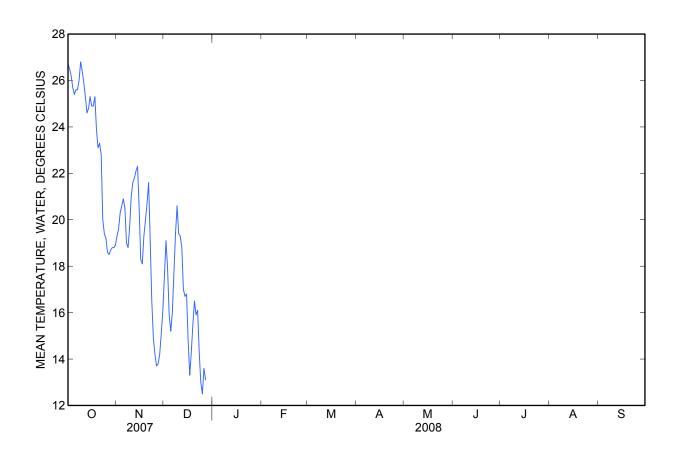
PH, WATER, UNFILTERED, FIELD, STANDARD UNITS WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Median	Max	Min	Median	Max	Min	Median	Max	Min	Median
		Octobe	October		November			Decembe	er		•	
1	7.6	7.5	7.5	7.8	7.7	7.8	7.7	7.6	7.7			
2	7.8	7.5	7.7	7.8	7.7	7.8	7.7	7.6	7.7			
3	7.8	7.7	7.7	7.8	7.7	7.7	7.7	7.6	7.7			
4	7.8	7.7	7.7	7.8	7.7	7.7	7.7	7.7	7.7			
5	7.8	7.7	7.7	7.8	7.6	7.7	7.8	7.7	7.7			
6	7.8	7.6	7.7	7.7	7.7	7.7	7.8	7.7	7.7			
7	7.8	7.6	7.7	7.7	7.7	7.7	7.7	7.6	7.7			
8	7.8	7.6	7.7	7.8	7.7	7.7	7.7	7.6	7.7			
9	7.7	7.4	7.5	7.8	7.7	7.7	7.7	7.6	7.7			
10	7.6	7.5	7.5	7.8	7.7	7.7	7.7	7.6	7.7			
11	7.6	7.5	7.6	7.8	7.6	7.7	7.7	7.6	7.7			
12	7.7	7.6	7.6	7.7	7.6	7.6	7.8	7.6	7.7			
13	7.7	7.6	7.6	7.7	7.6	7.6	7.7	7.6	7.7			
14	7.7	7.6	7.7	7.7	7.6	7.6	7.6	7.6	7.6			
15	7.7	7.6	7.7	7.7	7.6	7.6	7.7	7.6	7.6			
16	7.7	7.6	7.7	7.8	7.6	7.7	7.7	7.6	7.7			
17	7.7	7.6	7.7	7.7	7.6	7.7	7.7	7.7	7.7			
18	7.7	7.6	7.6	7.7	7.6	7.7	7.7	7.6	7.7			
19	7.7	7.6	7.6	7.7	7.6	7.7	7.7	7.6	7.7			
20	7.8	7.6	7.7	7.7	7.6	7.7	7.7	7.6	7.7			
21	7.8	7.7	7.8	7.8	7.6	7.8	7.8	7.7	7.7			
22	7.9	7.7	7.8	7.9	7.8	7.8	7.8	7.7	7.8			
23	7.8	7.5	7.6	7.9	7.8	7.8	7.8	7.7	7.8			
24	7.6	7.5	7.6	7.9	7.8	7.8	7.8	7.7	7.8			
25	7.7	7.5	7.6	7.9	7.8	7.8	7.8	7.7	7.8			
26	7.8	7.7	7.7	8.0	7.8	7.9	7.7	7.6	7.7			
27	7.8	7.7	7.7	7.9	7.6	7.8	7.7	7.6	7.7			
28	7.8	7.7	7.7	7.7	7.6	7.6						
29	7.8	7.7	7.7	7.7	7.6	7.6						
30	7.7	7.6	7.7	7.7	7.6	7.7						
31	7.8	7.6	7.7									
lax	7.9	7.7	7.8	8.0	7.8	7.9						
lin	7.6	7.4	7.5	7.7	7.6	7.6						

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TEMPERATURE, WATER, DEGREES CELSIUS WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
		October			Novembe			Decembe	r		January	,
1	27.4	26.1	26.7	20.0	18.7	19.3	18.3	16.8	17.6			
2	26.9	26.0	26.5	20.2	18.9	19.6	19.9	18.3	19.1			
3	26.9	25.5	26.2	21.1	19.7	20.3	19.2	16.9	17.9			
4	26.3	24.8	25.7	21.2	19.9	20.6	16.9	15.3	15.9			
5	26.1	24.6	25.4	21.5	20.2	20.9	15.8	14.5	15.2			
6	26.3	24.9	25.6	21.1	19.6	20.5	16.8	15.3	16.0			
7	26.1	24.9	25.6	19.6	18.5	19.0	18.7	16.8	17.7			
8	26.8	25.5	26.0	19.4	18.2	18.8	20.1	18.7	19.4			
9	27.5	26.2	26.8	20.5	18.9	19.7	21.1	20.1	20.6			
10	26.9	25.8	26.4	21.8	20.3	21.0	20.8	18.7	19.4			
11	26.4	25.2	25.9	22.2	21.1	21.6	20.0	18.7	19.3			
12	25.9	24.5	25.3	22.2	21.4	21.8	20.0	17.6	18.8			
13	25.1	24.0	24.6	22.6	21.7	22.1	17.6	16.9	17.0			
14	25.4	24.2	24.8	22.9	21.8	22.3	16.9	16.6	16.7			
15	25.8	24.8	25.3	22.0	19.3	20.5	17.3	15.9	16.8			
16	25.5	24.7	24.9	19.3	17.8	18.3	15.9	14.0	14.8			
17	25.6	24.4	24.9	18.6	17.8	18.1	14.0	12.6	13.3			
18	25.9	24.9	25.3	20.0	18.6	19.3	15.3	13.5	14.3			
19	25.0	23.1	23.9	20.5	19.5	20.0	16.3	14.9	15.5			
20	23.7	22.3	23.1	21.3	20.2	20.7	17.1	16.0	16.5			
21	23.9	22.6	23.3	22.5	21.1	21.6	16.4	15.2	15.9			
22	23.9	21.2	22.8	21.1	17.7	19.1	16.7	15.5	16.1			
23	21.2	19.1	20.0	17.7	15.7	16.5	15.5	13.8	14.3			
24	20.1	18.7	19.4	15.7	14.4	14.9	13.8	12.3	13.0			
25	19.6	18.6	19.2	14.5	13.8	14.2	13.2	11.7	12.5			
26	19.1	17.8	18.6	14.2	13.0	13.7	14.3	13.1	13.6			
27	19.2	17.9	18.5	14.3	13.2	13.8	13.8	12.4	13.1			
28	19.4	18.0	18.7	14.8	13.5	14.2						
29	19.4	18.2	18.8	15.9	14.5	15.1						
30	19.4	18.2	18.8	16.8	15.5	16.1						
31	19.6	18.2	18.9									
Month	27.5	17.8	23.4	22.9	13.0	18.8						



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DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	
		October			Novembe	r		Decembe	r	January			
1	8.3	5.2	6.5	12.4	8.6	10.3	9.5	8.3	8.8				
2	8.1	5.7	6.6	12.2	8.4	10.2	9.9	7.7	8.7				
3	9.4	5.9	7.2	11.8	8.3	10.0	10.1	7.8	8.9				
4	10.0	6.2	7.7	11.8	8.2	9.9	10.8	8.4	9.6				
5	10.3	6.4	8.0	11.7	7.9	9.6	11.4	8.9	10.1				
6	10.6	6.6	8.2	9.6	7.7	8.7	11.2	8.7	9.8				
7				9.2	7.9	8.6	10.7	8.0	9.2				
8				10.6	8.2	9.2	9.4	7.4	8.4				
9				10.8	8.2	9.4	8.9	7.0	8.0				
10				10.3	7.9	9.0	8.4	6.8	7.6				
11				10.0	7.4	8.7	8.5	6.8	7.7				
12				9.6	7.4	8.5	7.9	6.7	7.1				
13				9.5	7.3	8.4	8.3	6.8	7.5				
14				10.0	7.2	8.4	7.7	6.8	7.3				
15				9.8	7.1	8.4	8.8	6.6	7.7				
16				10.3	7.8	9.0	9.7	7.6	8.6				
17				9.5	8.3	8.9	10.5	8.4	9.4				
18				10.0	7.8	8.8	10.6	8.4	9.5				
19				9.7	7.7	8.6	9.9	8.1	8.9				
20				9.7	7.4	8.4	10.3	7.6	8.9				
21				9.9	7.1	8.4	10.8	7.8	9.4				
22				9.3	6.9	8.2	10.7	7.8	9.4				
23	9.7	7.1	8.3	9.7	8.1	8.9	11.0	8.6	9.8				
24	10.0	7.3	8.5	9.8	8.8	9.3	11.4	9.1	10.4				
25	10.6	7.6	9.0	10.6	8.9	9.7	11.8	9.4	10.8				
26	11.4	8.1	9.6	11.4	9.4	10.3	11.6	9.1	10.5				
27	11.6	8.4	9.9	11.8	9.1	10.2	11.4	9.1	10.4				
28	12.0	8.5	10.1	11.7	9.5	10.6							
29	12.2	8.5	10.2	11.7	9.4	10.5							
30	12.2	8.5	10.3	10.7	8.9	9.8							
31	12.6	8.6	10.4										
lonth				12.4	6.9	9.2							

